

# Erratum: Comparison of the $Z/\gamma^* + \text{jets}$ to $\gamma + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8$



## The CMS collaboration

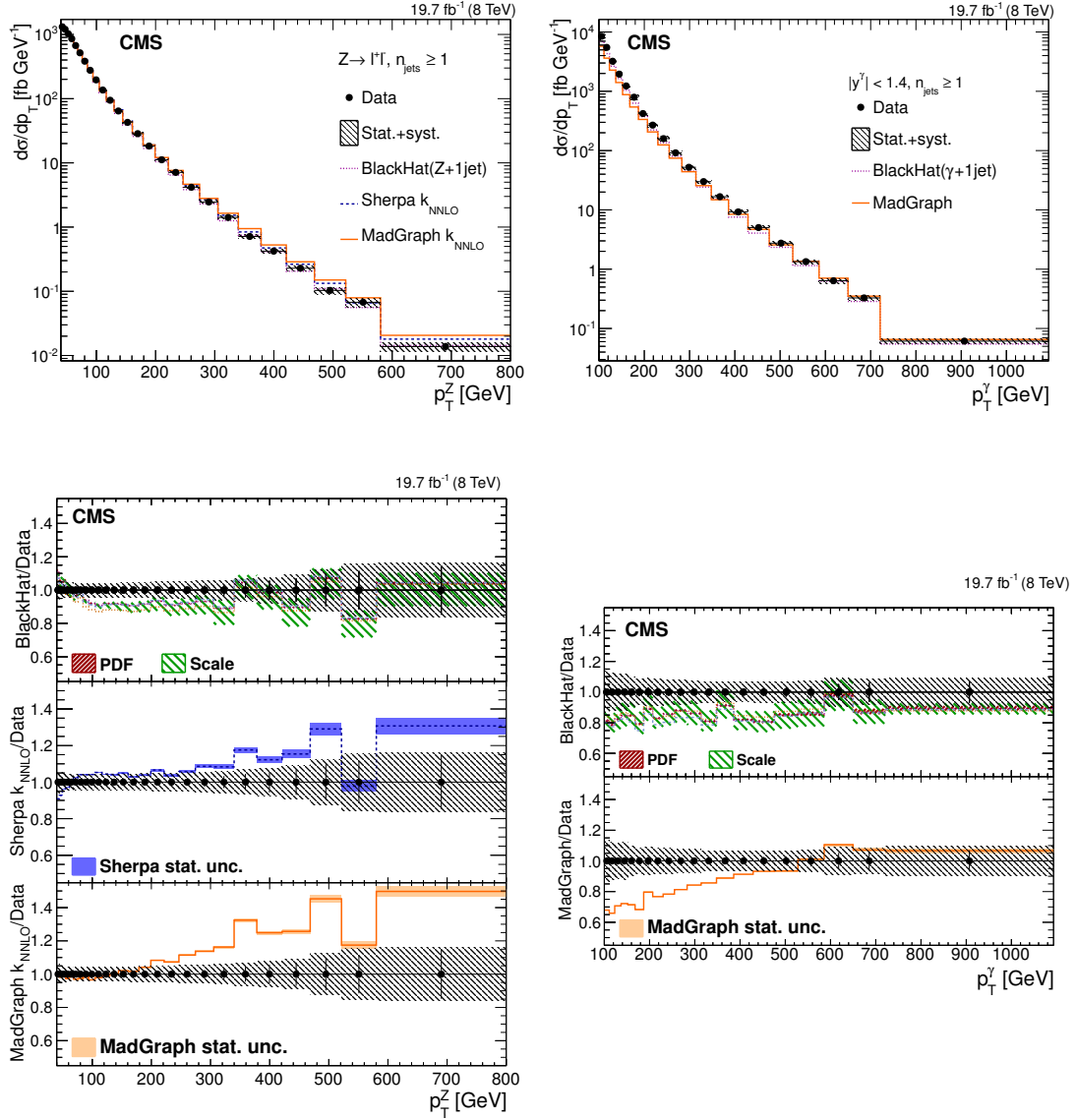
*E-mail:* [cms-publication-committee-chair@cern.ch](mailto:cms-publication-committee-chair@cern.ch)

ERRATUM TO: [JHEP10\(2015\)128](#)

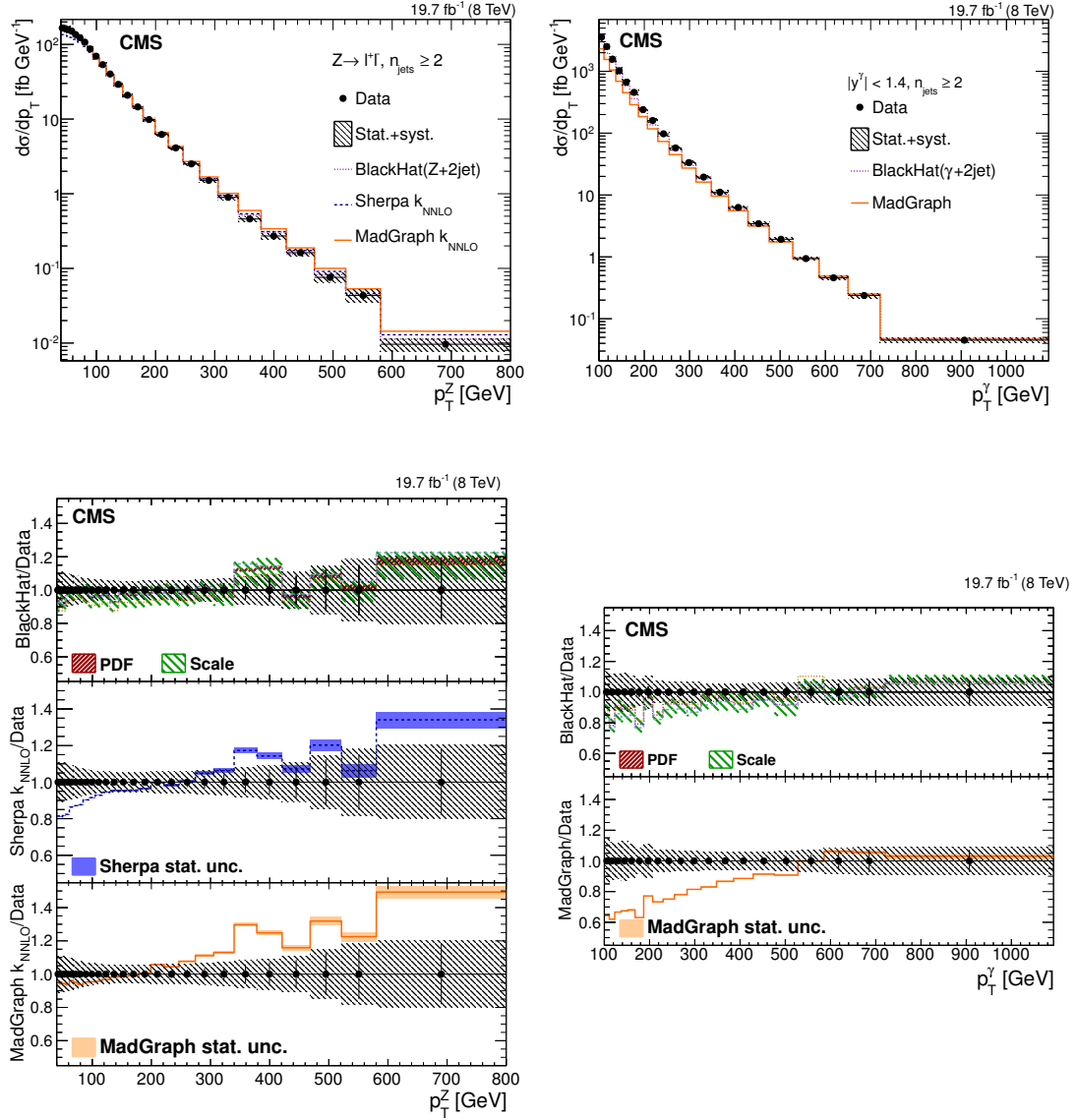
ARXIV EPRINT: [1505.06520](#)

An error was found in the published version in the top right plots in figure 2 and figure 3. In both cases the normalization of the photon plots is incorrect by the factor of the luminosity of 19.7. The corrected figures are shown below. The physics conclusion of the paper remains unchanged, since the ratio plots are unaffected.

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**Figure 1.** Top left: differential cross section for Z boson production as a function of  $p_T^Z$  for an inclusive Z+jets,  $n_{\text{jets}} \geq 1$  selection of detector-corrected data in comparison with estimations from MADGRAPH+PYTHIA 6, SHERPA, and BLACKHAT. Top right: differential cross section for photon production as a function of  $p_T^\gamma$  for an inclusive  $\gamma$  + jets,  $n_{\text{jets}} \geq 1$  selection for central rapidities  $|y^\gamma| < 1.4$  in detector-corrected data is compared with estimations from MADGRAPH+PYTHIA 6 and BLACKHAT. A detailed explanation is given in section 7.1. The bottom plots give the ratio of the various theoretical estimations to the data in the Z + jets case (bottom left) and  $\gamma$  + jets case (bottom right).



**Figure 2.** Top left: differential cross section for Z boson production as a function of  $p_T^Z$  for an inclusive Z+jets,  $n_{\text{jets}} \geq 2$  selection of detector-corrected data in comparison with estimations from MADGRAPH+PYTHIA 6, SHERPA, and BLACKHAT. Top right: differential cross section for photon production as a function of  $p_T^\gamma$  for an inclusive  $\gamma$  + jets,  $n_{\text{jets}} \geq 2$  selection for central rapidities  $|\gamma| < 1.4$  in detector-corrected data is compared with estimations from MADGRAPH+PYTHIA 6 and BLACKHAT. A detailed explanation is given in section 7.1. The bottom plots give the ratio of the various theoretical estimations to the data in the Z + jets case (bottom left) and  $\gamma$  + jets case (bottom right).

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